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understand the underlying thought. The theory of relativity belongs to theoretical physics in the widest sense and this is mathematical description of the physical processes of nature." In the course of the book the only assumed knowledge of mathematics and physics is such as is given in the first semesters at a university.

Fundamentals of High School Mathematics. A Textbook designed to follow Arithmetic. By H. O. RUGG and J. R. CLARK. Yonkers-on-Hudson, World Book Co., 1920. 15 + 368 pp. 12mo. Price $1.80. [Answer book, 16 cents.]

Attention is drawn to this work for first year high school mathematics, by teachers in the Lincoln School, New York. It is a development from their study, *Scientific Method in the Reconstruction of Ninth-Grade Mathematics* (University of Chicago Press, 1918, 8vo. 189 pages), and takes account of principles formulated by the National Committee on Mathematical Requirements. A rough draft "experimental edition" (8 + 266 pages) was published in 1918 and distributed at cost for experimental purposes only.

The Slide Rule: A Practical Manual. By C. N. PICKWORTH. Seventeenth edition. Manchester, Emmot & Co.; London, Emmot & Co., and Pitman & Sons, 1921. 12mo. 133 pp. Price 3 shillings and 6 pence (the New York agent, I. Pitman & Sons, charges more than double this price, namely, $1.50).

This book has been well known for twenty years, the eleventh edition appearing in 1908, the fourteenth in 1916, and the fifteenth in 1917, each of these editions containing revisions and new matter. The present edition contains eight pages more than the fourteenth, the additions including descriptions of new slide rules, and a section dealing with screw-cutting gear calculations by the slide rule.

NOTES.

In *Bulletin des Sciences Mathématiques*, July–August, 1921, there is a historical article by C. de Waard entitled "Une lettre inédite de Roberval du 6 Janvier, 1637, contenant le premier énoncé de la cycloïde."

In *Proceedings of the Benares Mathematical Society*, volume 2, part 2, 1920, is published "On mathematical research in the last 20 years," the presidential address delivered on January 31, 1921, by Dr. Ganesh Prasad, professor of mathematics in the Benares Hindu University. Compare *1921*, 31, 179, 191.

Revista Matemática Hispano-Americana, June, 1921, contains, pages 161–166, a portrait, brief biographical sketch, and bibliography of the writings (59 titles), of C. J. de la Vallée-Poussin.

The eleventh paper in *Proceedings of the Royal Society of Edinburgh*, volume 41, 1920–1921, is (pages 111–116) "Note on a continuant of Cayley's of the year 1874" by Sir Thomas Muir, the African member of our Association.

There are 81 names in the list of members of the "Gazeta Matematică" Society of Roumania, published in the first number, September, 1921, of *Gazeta Matematică*, volume 27.

The summer number of *Isis*, 1921, includes the following articles: "Two twelfth century algorisms" by L. C. KARPINSKI, 396–413; "History of symbols for *n*-factorial" by F. CAJORI, 414–418.

The fourth and last volume of E. BELTRAMI, *Opere matematiche pubblicate per cura della Facoltà di Scienze della R. Università di Roma*, was issued from the press of Hoepli, Milan, in 1920 (554 pages; price 50 lire).